VIJAY RAVI

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https://github.com/crazydude123

EDUCATION

Master of Mathematics | Computer Science

Batch of '22

Waterloo

University of Waterloo; GPA: 91.5

Coursework:

• Reinforcement Learning (Grade: 94)

• Natural Language Processing (Grade: 100)

• Distributed Systems (Grade: 91)

• Programming Languages (Grade: 92)

Bachelor of Engineering | Computer Science and Engineering

RV College of Engineering; GPA: 9.25

Batch of '20

Bengaluru

BEST OF SKILLS

• PyTorch

• OpenAI apis

• Elastic Search

- Hardcore C++
- Systems, Caching and Networking
- Training Neural Networks DQNs to CNNs to LLMs

WORK EXPERIENCE

Lead Engineer

October, 2022 - Present

LegalAI

India

- **Team**: Team Lead of 4 exploring GPTs
- Impact: Tailored GPT-wrapper for Indian Law hits 85% accuracy on our mission to help common man with AI. The responses are grounded in a privately scraped legal database!
- Website: startfilings.com

Associate Research Engineer

January, 2023 - October, 2023

Huawei Canada

- Team: Distributed Database Management System
- Impact: SOTA caching system (SOSP '23), SOTA caching system
- Contribution: Pushed multiple features from handling OOM errors, fixing a major ETCD backward-compatibility bug, refactoring stale code, object cache redesign, to writing test cases. Also, briefly worked to hone the caching system to support Huawei's Storage Engine!

Research Assistant

1 year and 8 months

Rogers Communications Canada

- **Team**: 5G, AI and Innovation
- Impact: Prototyped Waterloo's own WATonoBUS' (autonomous bus) workload on the 5G stack! Tried out various ML workloads (Coco, ImageNet, etc. and NN weights) on the 5G stack

Research Assistant 1 year and 6 months Oracle Canada • Team: Distributed Databases • Impact: Built a Distributed Database with multi-threading capabilities - beats Mu and DARE and will likely be SOTA - OSDI '24 **Software Engineer** 1 year and 5 months Cisco India • Team: Microservices and Orchestration • Impact: Worked in the backend team for intersight.com and pushed a lot of features to production: email workflow, centralized microservice for sanity checks of workflows, etc. A key feature was task prediction of workflow times using SOTA ML models! **Software Engineer Intern** 2 months India Boeing • Team: Defense, Space and Security • Impact: Built an Android app for artillery design and control systems, for an Indian Navy defense plane **Research Assistant** 6 months **RVCE** India • Team: Prof. K. Badarinath's Research Team • Impact: Worked on an intelligent noticeboard that displays AI-curated content based on emotion of the bystander - IEEE CSITSS conference best paper '19 **PUBLICATIONS** General-purpose Serverless System for Distributed Applications in the Cloud 2023 **SOSP 2023** • Was part of Huawei's DDSM (Distributed Datasystems Managment) team where we built a SOTA cacheing system Activity Duration Prediction of Workflows and analyses of Various Machine 2020 **Learning Approaches IRJET 2020**

· As part of my undergraduate thesis, at Cisco, I explored into Machine Learning

Cost-effective noticeboard systems leveraging sentiment analysis and displaying no-

2018

solutions for activity duration prediction.

IEEE 2018 3rd CSITSS

tices

Cost-effective and self-regulating digital Noticeboard systems